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Distributed Energy Association of Arizona
5401 N. 25TH STREET
Phoenix, AZ 85016

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SUBJECT: Rebuttal Testimony of AzCA/DEAA under Docket # ~~E-01345A-05-0816~~

E-01345A-05-0826

Dear Sir or Madam:

E-01345A-05-0827

Attached is the Rebuttal Testimony of witness William J. Murphy for the Arizona Cogeneration Association d/b/a Distributed Energy Association of Arizona.

If you have any questions,, you can email me at billmurphy@cox.net or phone me on (602) 703-8163.

Sincerely:

William J. Murphy P.E.
DEAA

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BEFORE THE ARIZONA CORPORATION COMMISSION

COMMISSIONERS

**JEFF HATCH-MILLER, Chairman
WILLIAM A. MUNDELL
MIKE GLEASON
KRISTIN K. MAYES
BARRY WONG**

**IN THE MATTER OF THE APPLICATION
OF ARIZONA PUBLIC SERVICE COMPANY
FOR A HEARING TO DETERMINE THE FAIR
VALUE OF THE UTILITY PROPERTY OF THE
COMPANY FOR RATEMAKING PURPOSES,
TO FIX A JUST AND REASONABLE RATE OF
RETURN THEREON, TO APPROVE RATE
SCHEDULES DESIGNED TO DEVELOP SUCH
RETURN, AND TO AMEND DECISION NO.
67744**

DOCKET NO. E-01345A-05-0816

Rebuttal Testimony of

William J. Murphy

on behalf of Distributed Energy Association of Arizona

Docket No. E-01345A-05-0816

September 27, 2006

Rebuttal Testimony of William J. Murphy
Docket No. E-01345A-05-0816

Table of Contents

Introduction	1
Discussion of RUCO testimony	1
Discussion of Staff testimony	2
Comparison of utility vs. DG rate treatment	3
Discussion of terms of velocity	3
Summary of Recommendations	4
List of Exhibits	5

Rebuttal Testimony of William Murphy
on behalf of DEAA
Docket No. E-01345A-050816

INTRODUCTION

Q. PLEASE STATE YOUR NAME AND YOUR BUSINESS ADDRESS?

A. My name is William Murphy. My business address is 2422 E. Palo Verde Dr.
Phoenix, Arizona 85016.

Q. DID YOU PREVIOUSLY PROVIDE DIRECT TESTIMONY IN THIS DOCKET E-01345A -05-0816?

A. Yes.

Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. My testimony discusses three topics:

- 1) A review of parts of the Testimony of RUCO , Staff, and others on rate design.
- 2) A brief discussion of cents/kWh vs. usage.
- 3) Recommendations.

Q. DO YOU HAVE AN OPINION OF RUCO'S APPROACH TO RATE DESIGN?

A Yes, I was pleased with the ideas that were presented in the testimony of Marylee Diaz Cortez. The 2 reasons given were as follows:

- 1) "Since the need for a rate increase is primarily attributable to increased generation and fuel costs....." Page 2 line 22-23.
- 2) ".....it allows customers to mitigate the cost of the increase through conservation" page 3 lines 4-5.

Q. DO YOU HAVE AN OPINION ON HOW RUCO APPLIED THE APPROACH TO ACTUAL RATES?

A. Unfortunately, on the General Service rate E-32, the approach appears to result in increases in demand charges (kW) and also demand related energy (kWh) costs that are contained in the expanding block, the block that states "\$0.07938 per kWh for the first 200 kWh per kW, plus \$0.04175 per kWh for all additional kWh"

The only part of demand charges that are fuel related are the difficult to understand "expanding block" discussed in the preceding paragraph.

1
2 Q. DO YOU HAVE AN OPINION ON THE STAFF WITNESS ERINN ANDREASEN
3 ON THE RATE DESIGN ISSUES?
4

5
6 A Yes, I was also pleased with Ms. Andreasen's recommendations as follows:
7

8 EAAr-6 and EAAr-7, these recommendations request a delay in the elimination of
9 rates E-21, E-22, E-23, & E-24.

10 These rates were originally intended to assist Houses of Worship and other customers
11 use energy primarily off-peak. Additionally, these Rates offer a choice to the
12 approximately 96% of all General Service customers that are on rate E-32. Equally
13 important these rate choices appeal to rate-payers that are small, medium, and large
14 sized customers. These rate choices partially solve the concerns raised in EAA
15 Recommendation -10, below.
16

17 EAAr-10, this recommendation calls for Rate E-32 to be separated into small,
18 medium, and large categories. This is a long overdue action that could solve many
19 problems, including fairness, understandability, cost following, and others.
20

21 EAAr-10a, this recommendation is my suggestion to pair the split up of rate E-32
22 with a redesign of E-32TOU into size sensitive rates similar to E-21, E-22, E-23, &
23 E-24.
24

25
26 Q. ARE THERE ANY RECOMENDATIONS BY MS. ANDREASEN AND MS. DIAZ
27 CORTEZ THAT YOU WILL NOT PRESENT AN OPINION?
28

29 A. Yes.
30
31

32 Q. ARE THERE ANY RECCOMENDATIONS BY MS. ANDREASEN WITH WHICH
33 YOU DO NOT AGREE?

34 A. Yes, there are 2 recommendations that cause concern;
35

36 EAAr-13 the entire subject of landlords selling energy to tenants needs to be
37 discussed more fully. Some very large customers have in the past considered these
38 sales as a service and opportunity for the benefit of both the landlord and tenant.
39 These customers are GS customers with large (>1000 kW loads)
40

41 EAAr-21 This recommendation covers a Demand-Management study by APS. This
42 runs head-on into the Utilities desire to maintain its Revenue Stability.
43

44 This study is a fair idea, but I personally can't handle the thought of another
45 workshop.
46

1 Q. PLEASE DESCRIBE HOW A CUSTOMER FUNDED DG UNIT WOULD BE
2 ALLOWED TO OPERATE WITH THE SAME ECONOMIC RULES THAT
3 APPLY TO RATE-PAYER FUNDED UTILITY POWER PLANTS?
4

5 A. The answer to this question breaks down into Demand and Energy components:
6

7 1) DEMAND: There will no economic penalty for outages (unavailability) unless
8 negligence by the operator can be proven. Otherwise there are no demand or standby
9 charges/penalties during normal operation.
10

11 2) ENERGY: On the energy side the rate-payers will contribute 90% of the cost of
12 replacement energy. The DG owner will have to pay only 10% of these energy
13 costs.
14
15
16

17 Q. PLEASE DESCRIBE HOW A UTILITY POWER PLANT WOULD BE ALLOWED
18 TO OPERATE WITH THE SAME ECONOMIC RULES THAT APPLY TO
19 CUSTOMER FUNDED DG POWER PLANTS?
20

21 A. The answer to the question breaks down into Demand and Energy components:
22

23 1) DEMAND Charges will be such that any plant capital recovery allowed for that
24 particular month will be zero if the Capacity Factor falls below 99.96% (a very high
25 C.F.)
26

27 This zero cost recovery will not be forgiven no matter what is the reason for the
28 failure.
29

30 2) ENERGY the Utility Stockholders shall be expected to pay for 100% of all
31 energy use that results from any plant outage. No matter what the cause,
32 Rate-payers will not contribute anything to the cost of the replacement energy.
33 See Exhibit WJM -3 for an outline of the DG rate choices.
34

35 Q. YOU MENTIONED EARLIER THAT THERE WERE EXAMPLES OF
36 TECHNICAL TERMS THAT DESCRIBE VELOCITY – ARE THERE OTHER
37 TERMS TO MEASURE RATE OF SPEED?

38 A. Yes I mentioned earlier in my direct testimony that utility customers were familiar
39 with the term for speed “miles per hour”. But there are other terms such as “Furlongs
40 per Fortnight” to measure speed. The equivalent term for 60 MPH would be 162,510
41 furlongs per fortnight. I don’t think there would be much understanding of FPF. It is
42 not as difficult to understand as kilowatt, but it is in the chase.
43
44
45

1 Q. WOULD YOU SUMMARIZE YOUR RECOMENDATIONS AND HOW THEY
2 MESH WITH OTHER WITNESS'S THAT DISCUSSED RATE DESIGN.
3

4 A The most important consideration is that the rates begin to reflect the new higher fuel
5 (Energy) prices, and lower capitol costs (Demand). This is the basis for our Direct
6 Testimony recommendation that general service DG customers utilize a rate similar
7 to the SRP E-32TOU. (See attached Exhibit WJM-5)
8

9 We recommend also that rates begin to truly reflect the differences in system costs
10 between summer and winter, Day and Night, the peak seasonal hours. (See Attached
11 Exhibit WJM-4)
12

13 We recommend that the commission review the trend that greater energy usage
14 results in lower cents/kWh. (see Exhibit WJM -2) These current rates appear to
15 reflect the capital/fuel cost relationship that existed in the early 1990's.
16

17 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
18

19 A. Yes.
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ATTACHMENTS

WJM-2 Rate Class 6.6

WJM -3 PARTIAL REQUIREMENTS

WJM -4 RES, GS, TOU RATES

WJM -5 BusE321105.pdf

APS RATE DISTRIBUTION

TY ENDING SEPT 30, 2005, ADJUSTED

WJM-2

	ROR		% of		% Total		Total
	cents/kWh	Index	Avg Customers	Avg kWh	Total kWh	% kWh	Revenues \$
RESIDENTIAL							
E-10	9.1	48.0%	78,292	9,546	747,414,000	6%	\$68,113,000
E-12	9.9	109.0%	411,939	9,149	3,768,884,000	30%	\$372,438,000
EC-1	7.8	15.0%	20,840	21,843	455,200,000	4%	\$35,431,000
ET-1	8.5	28.0%	329,062	18,289	6,018,067,000	49%	\$510,800,000
ECT-1R	7.5	-2.0%	46,327	29,639	1,373,087,000	11%	\$102,769,000
TOTAL	8.8	52.0%	886,460	13,946	12,362,652,000	100%	1,089,551,000
GENERAL SERVICE							
E-20	9.1	292%	349	113,367	39,565,000	0%	\$3,587,000
E-21	8.2		25	65,240	1,631,000	0%	\$133,000
E-22	9.3		17	215,176	3,658,000	0%	\$339,000
E-23	7.8		144	296,382	42,679,000	0%	\$3,324,000
E-24	5.9		45	3,666,311	164,984,000	1%	\$9,784,000
E-30	16.7	123%	3,890	1,457	5,669,000	0%	\$945,000
E-32 very small(0-20kW)							
E-32 small (21-100kW)		168%	89,976	0	0	0%	0%
E-32 medium(101-400kW)		211%	4,042	0	0	0%	0%
E-32 medium (401-999kW)		211%					
E-32 large(1000 + kW)		-7%	162	0	0	0%	0%
E-32 E-32R,E-53,E-67	7.8	137%	103,231	105,385	10,879,043,000	79%	\$843,836,000
E-32 TOU	7.8		3	616,333	1,849,000	0%	\$144,000
E-34	5.6	3%	38	31,135,395	1,183,145,000	9%	\$66,719,000
E-35	4.9	-3%	19	72,716,789	1,381,619,000	10%	\$67,661,000
E-40			1	0	0	0%	\$1,000
E-51	6.2		2	5,359,000	10,718,000	0%	\$866,000
G S TOTAL	7.3	135%	107,764	127,265	13,714,560,000	100%	997,139,000
IRRIGATION/PUMPING							
E-38,E-38-8T,E-38TOW	7.1		44	199,523	8,779,000	3%	\$620,000
E-221,E-221-8T,E-221TOW	7.1		1,422	199,620	283,860,000	97%	\$20,244,000
Total	7.1	320%	1,466	399,143	292,639,000	100%	20,864,000
OUTDOOR LIGHTING							
E-68	22.7		564	48,461	27,332,000	23%	\$6,208,000
E-59	8.5		184	401,918	73,953,000	64%	\$6,281,000
E-67 cop	3.6		210	20,876	4,384,000	4%	\$159,000
Contract	6.5		39	275,641	10,750,000	9%	\$697,000
Total	11.5	71%	997	116,769	116,419,000	100%	13,345,000
DUSK to DAWN							
Weather Adj	23.8	199%			27,037,000	0%	\$6,423,000
Cust Adj							
TOTAL RETAIL	8.0	89%	996,687	26,601	26,513,307,000	100%	\$2,127,322,000
RESALE							
	5.0	155%		?	4,254,644,000	?	\$212,732,200
TOTAL TOTAL							
	7.6	100%			30,767,951,000	100%	\$2,340,054,200

1. this base data from APS Schedule H-2.

2. ROR index from APS09951 (SJB-3)& KCH-1

rate class 6.6

PARTIAL REQUIREMENTS RATES

WJM-3

RATE	E-51		E-52		E-55		E-32R	
	5/27/1994	4/1/2005	3/1/1996P	4/1/2005	3/1/1996P	4/1/2005	7/1/1996	4/1/2005
CUST	SUMMER		SUMMER		SUMMER		SUMMER	
STANDBY	\$32.00	\$33.58	\$123.85	\$123.83	\$1,733.90	\$1,733.90	\$12.50	\$34.49
kW summer"FOR"	\$4.50	\$4.16	\$7.29	\$6.59	\$6.98	\$6.77	\$7.00	\$11.00
kWh- on-P	\$0.04980	\$0.04602	\$0.02130	\$0.02961	\$0.02080	\$0.03040	first \$0.11275	\$0.07938 200kwh/kw
kWh- off-P	\$0.02320	\$0.02142	\$0.01540	\$0.01574	\$0.01470	\$0.01616	last \$0.04866	\$0.04175 remainder
WINTER								
kW	\$4.50	\$4.16	\$7.29	\$6.59	\$6.98	\$6.77		
kWh- on-P	\$0.03540	\$0.03271	0.01870	0.02537	\$0.01930	\$0.02605	first \$0.10157	\$0.06945 200kwh/kw
kWh- off-P	\$0.02320	\$0.02142	0.01250	0.01006	\$0.01390	\$0.01033	last \$0.04351	\$0.03182 remainder
LIMIT on standby energy - over 250kWh/kW is on supplemental rate								
PENALTY \$/kW			\$13.84	\$12.50	\$15.11	\$21.28	\$7.00	\$11.00
MAINTENANCE								
kWh- on-P	0.03540	0.02142	0.01870	0.02537	\$0.01930	\$0.02605	see above	see above
kWh- off-P	0.02320		0.01350	0.01006	\$0.01390	\$0.01033	see above	see above
SUPPLIMENTAL								
	E-32 or E-34		E-32 or E-34		E-34 Or E-35		E-32 or E-34	
ON-PEAK	11:00A - 9:00P		9:00A to 9:00P		cust \$2,430.00	34,4736		
					kW \$11.42	12,343		
					kWh 0.03365	0.03183		
pages	4	4	5	8	5	10	1+2	1+6

partial req 9/21/06

TIME OF USE (TOU) RATES
 EC-1, ECT-1R, ECT-2, E-20, E-21, E-22, E-23, E-24, E-32TOU EFFECTIVE 5/1/2005

WJM-4

RESIDENTIAL RATES

	EC-1	ECT-1R	PROPOSED ECT-2	ET-1	PROPOSED ECT-2
BASIC SERVICE CHARGE	\$7.70	\$15.00	\$16.67	\$15.00	\$16.67
SUMMER \$/KW/MO (ON-PEAK)	\$10.00	\$11.81	\$11.81	\$0.00	\$0.00
WINTER \$/KW/MO (ON-PEAK)	\$7.10	\$8.11	\$8.11	\$0.00	\$0.00
SUMMER CENTS/KWH ON PEAK	0.03943	0.04785	0.05690	\$0.13310	\$0.18200
SUMMER CENTS/KWH OFF-PEAK		0.02672	0.02792	\$0.04299	\$0.04519
WINTER CENTS/KWH ON-PEAK	0.02978	0.03641	0.03730	\$0.10918	\$0.08703
WINTER CENTS/KWH OFF-PEAK		0.02570	0.02733	\$0.04169	\$0.05783
HOURS		9:00A-9:00P	NOON -9:00P	9:00A-9:00P	NOON -9:00P

GENERAL SERVICE RATES

	E-20 CHURCHES	E-21 > 100Kw	E-22 SMALL GS	E-23 MED GS	E-24 LARGE GS	E-32TOU 0 TO 3,000Kw
BASIC SERVICE CHARGE	\$28.62	\$28.14	\$28.14	\$60.47	\$1,042.41	\$34.49
SUMMER \$/KW/MO	\$2.045	\$2.010	\$2.300	\$6.410	\$9.390	\$15.112 FIRST 100 KW PLUS \$10.887 REMAINDER KW
excess	\$1.023	\$1.005	\$1.115	\$3.205	\$4.695	\$7.972 RESIDUAL????? \$3.747 RESIDUAL?????
WINTER \$/KW/MO	\$1.845	\$1.810	\$2.020	\$5.820	\$8.510	\$15.112 FIRST 100 KW PLUS \$10.887 REMAINDER KW
excess	\$0.923	\$0.905	\$1.010	\$2.910	\$4.255	\$7.972 RESIDUAL????? \$3.747 RESIDUAL?????
SUMMER CENTS/KWH ON PEAK	\$0.12305	\$0.12097	\$0.12125	\$0.08163	\$0.05283	\$0.04815
SUMMER CENTS/KWH OFF-PEAK	\$0.05943	\$0.056430	\$0.07475	\$0.05843	\$0.03797	\$0.03815
WINTER CENTS/KWH ON-PEAK	\$0.10820	\$0.10638	\$0.10285	\$0.07328	\$0.04723	\$0.03822
WINTER CENTS/KWH OFF-PEAK	\$0.05327	\$0.05237	\$0.06430	\$0.05237	\$0.03393	\$0.02822
ON-PEAK HOURS WEEKDAYS RES, GS, TOU RATES 9/21/06	11:00A-9:00P	11:00A-9:00P	11:00A-9:00P	11:00A-9:00P	11:00A-9:00P	11:00A-9:00P

SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

E-32

STANDARD PRICE PLAN FOR TIME-OF-USE GENERAL SERVICE

Effective: November 1, 2005

Supersedes: May 1, 2005

AVAILABILITY:

The E-32 Price Plan is subject to equipment availability.

APPLICABILITY:

To electric service supplied at one point of delivery and measured through one meter, for commercial, business, professional, small industrial, wind machines, and recreational facilities. This schedule is an alternative to the E-36 Price Plan. (See conditions.)

CHARACTER OF SERVICE:

Sixty hertz alternating current, three-phase or single-phase, at one standard voltage of approximately 120/240; 277/480; 2,400/4,160; or 7,200/12,000 volts, at the option of SRP.

CONDITIONS:

- A. On-peak hours from May 1 through October 31 consist of those hours from 2 p.m. to 7 p.m., Monday through Friday, Mountain Standard Time. Shoulder-peak hours consists of those hours from 11 a.m. to 2 p.m. and 7 p.m. to 11 p.m., Monday through Friday, Mountain Standard Time. All other hours are off-peak. On-peak hours from November 1 through April 30 consist of those hours from 5 a.m. to 9 a.m., Monday through Friday, Mountain Standard Time. Shoulder-peak hours consist of those hours from 5 p.m. to 9 p.m., Monday through Friday, Mountain Standard Time. All other hours are off-peak.
- B. Metering is at one point and such that kilowatts and kilowatt-hours or kilovolt-amperes and kilovolt-ampere-hours can be related to time-of-day.
- C. A customer may cancel service under this schedule and elect service under another General Service Price Plan. Cancellation becomes effective at the end of the billing cycle in which notice is received. The customer may not subsequently elect service under this price plan for at least one year after the effective date of cancellation.
- D. A customer requiring additional interconnection, metering, or other equipment beyond what is necessary for SRP to provide basic service applicable under this price plan will be required to pay SRP for the costs of such additional equipment.

PRICE PER METER:Monthly Service Charge

Billing and Collections	\$11.21
Meter	\$19.04
Meter Reading	\$7.06
Competitive Customer Service	\$0.20
Total	\$37.51

Summer
May 1 - October 31

<u>Per kW Charges (all kW)</u>	On-Peak	Shoulder-Peak	Off-Peak
Distribution Delivery	\$1.75	\$0.03	--
Transmission Delivery	\$2.89	\$0.33	--
Competitive Customer Service	\$0.14	\$0.00	--
Ancillary Services 1-2	\$0.10	\$0.09	--
Total	\$4.88	\$0.45	--

Winter
November 1 - April 30

<u>Per kW Charges (all kW)</u>	On-Peak	Shoulder-Peak	Off-Peak
Distribution Delivery	\$1.23	\$0.02	--
Transmission Delivery	\$2.36	\$0.24	--
Competitive Customer Service	\$0.16	\$0.00	--
Ancillary Services 1-2	\$0.07	\$0.05	--
Total	\$3.82	\$0.31	--

Summer **Winter**
May 1 - October 31 November 1 - April 30

On-Peak kWh Charge

Distribution Delivery	\$0.0391	\$0.0382
Transmission Delivery	\$0.0000	\$0.0000
Ancillary Services 1-2	\$0.0000	\$0.0000
Ancillary Services 3-6	\$0.0006	\$0.0006
System Benefits	\$0.0019	\$0.0019
Competitive Customer Service	\$0.0003	\$0.0002
Energy	\$0.0386	\$0.0336
Fuel and Purchased Power †	\$0.0257	\$0.0223
Total	\$0.1062	\$0.0968

	Summer May 1 - October 31	Winter November 1 - April 30
<u>Shoulder-Peak kWh Charge</u>		
Distribution Delivery	\$0.0275	\$0.0278
Transmission Delivery	\$0.0000	\$0.0000
Ancillary Services 1-2	\$0.0000	\$0.0000
Ancillary Services 3-6	\$0.0006	\$0.0006
System Benefits	\$0.0019	\$0.0019
Competitive Customer Service	\$0.0000	\$0.0000
Energy	\$0.0246	\$0.0231
Fuel and Purchased Power †	<u>\$0.0257</u>	<u>\$0.0223</u>
Total	\$0.0803	\$0.0757
<u>Off-Peak kWh Charge</u>		
Distribution Delivery	\$0.0000	\$0.0000
Transmission Delivery	\$0.0000	\$0.0000
Ancillary Services 1-2	\$0.0000	\$0.0000
Ancillary Services 3-6	\$0.0006	\$0.0006
System Benefits	\$0.0019	\$0.0019
Competitive Customer Service	\$0.0000	\$0.0000
Energy	\$0.0128	\$0.0124
Fuel and Purchased Power †	<u>\$0.0257</u>	<u>\$0.0223</u>
Total	\$0.0410	\$0.0372

† The price for Fuel and Purchased Power may be changed periodically consistent with Adjustment A.

ANCILLARY SERVICES:

Ancillary services provided include:

- 1) Scheduling, System Control and Dispatch Service
- 2) Reactive Supply and Voltage Control from Generation Sources Service
- 3) Regulation and Frequency Response Service
- 4) Energy Imbalance Service
- 5) Operating Reserve – Spinning Reserve Service
- 6) Operating Reserve – Supplemental Reserve Service

Direct access customers would need to secure ancillary services 3-6 from an alternate energy supplier or under the terms and conditions outlined in SRP's Open Access Transmission Tariff.

MINIMUM BILL:

The greater of:

- A. The monthly service charge or

- B. The minimum monthly dollar amount specified in a written Agreement for Electric Service, if any.

DETERMINATION OF DEMAND IN KILOWATTS:

The billing demand is the maximum thirty-minute integrated kilowatt demand occurring during the on-peak and shoulder-peak periods of the billing cycle, as measured by meter.

ADJUSTMENTS:

- A. SRP may increase or decrease the price for Fuel and Purchased Power based on changes in the average cost of fuel and purchased power. The price for Fuel and Purchased Power is calculated for each summer and winter season based on the projected cost of fuel and purchased power, adjusted for the actual over- or under-collection of fuel and purchased power revenues relative to fuel and purchased power expenses from prior periods.
- B. SRP may increase the Transmission Cost Adjustment Factor to recover transmission related costs or charges incurred by SRP resulting from standardized wholesale market designs, regional transmission organizations, or related activities.
- C. SRP increases or decreases billings under this schedule in proportion to any taxes, fees, or charges (excluding federal or state income taxes) levied or imposed by any governmental authority and payable by SRP for any services, power, or energy provided under this schedule.
- D. If the power factor falls below 85 percent lagging at any metering point during any billing period, SRP may:
 - 1. Adjust kilowatt-hours and/or kilowatts during this period, for billing purposes, to equal 85 percent of kilovolt-ampere-hours and 85 percent of kilovolt-amperes. Kilowatt-hours and/or kilowatts will be adjusted proportionately for the on-peak, shoulder-peak, and off-peak periods.
 - 2. Require the customer to correct the power factor to an acceptable level.
 - 3. Require the customer to be continuously metered with a separate meter that registers kilovolt-amperes, kilovars, or actual power factor.

At SRP's discretion, customer may be required to pay all costs associated with additional metering.

- E. If, at any time, the current in any phase exceeds the average of the currents in the three phases by more than 5 percent, at SRP's option, SRP may increase the bill for the period during which the imbalance occurs by a percentage equal to that of the imbalance.

- F. Customers participating in the 10-day SurePay Automatic Payment Program will receive a 1 percent discount on SRP services supplied under this price plan. The discount will be applied before adding sales tax. The discount does not apply to any penalties, fees, credits, or premiums. The discount will not apply to energy or services supplied by an alternative energy supplier.
- G. Customers within the SRP distribution service territory who receive all electric services from SRP under the E-32, E-36, E-47, E-48, E-61, E-63, or E-65 price plans who meet minimum usage requirements will receive an aggregation discount on their monthly bill(s).

$$\text{Aggregation Discount} = \$0.0003/\text{kWh}$$

Single accounts meeting minimum usage levels can qualify for aggregation discounts.

Aggregate usage must meet a minimum usage requirement of 300,000 kWh per month for three consecutive months. Only those accounts receiving energy and delivery services from SRP will count towards the minimum usage requirements.

The discount will be applied only to kWh sold under the applicable price plan. The discount will be applied before the application of any credits, penalties, fees, or premiums.

- H. For customers metered for billing purposes at primary voltage, SRP will deduct 1 percent of the demand and energy charges from each billing. Primary voltage is defined as the same voltage found at the low side of a substation transformer, typically 12.47 kV or 4,160 volts. The deduction does not apply to monthly service charges, facilities charges (where applicable), taxes, penalties, fees, or other adjustments.

RULES AND REGULATIONS:

- A. Service under this schedule is in accordance with the terms of SRP's Rules and Regulations, including any amendments.
- B. At SRP's request, Customer shall sign SRP's then-current form of Agreement for Electric Service as a condition of service under this price plan.
- C. For direct access customers, service under this schedule is in accordance with the terms of SRP's Direct Access Program, as set forth in the Rules and Regulations, including any amendments.

SPECIAL RIDERS:

- A. Customers may choose to participate in SRP's Renewable Pricing Rider.

- B. Customers with cogeneration or small power production who purchase power and energy from SRP may qualify to sell power and energy back to SRP under the Buyback Service Rider.
- C. Customers with a minimum annual load of 100 kW and who have the flexibility to curtail load may qualify for service under the Use Fee Interruptible Rider.
- D. Customers with individual accounts or aggregated loads of 1 MW or more, who have energy alternatives and who are willing to sign a term contract, may qualify for service under the Full Electric Service Requirements Rider.
- E. Customers interested in receiving a verifiable market price for energy and who are willing to have their energy price per kWh change on a monthly basis, to reflect the electric energy market, may choose to participate in the Monthly Energy Index Rider.
- F. Customers may choose to participate in SRP's Renewable Pricing Rider for Large Customers.